

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 June 2005 (23.06.2005)

PCT

(10) International Publication Number
WO 2005/056733 A1

- (51) International Patent Classification⁷: C10G 67/08, 21/08, 17/06, 45/02
- (21) International Application Number: PCT/US2004/040095
- (22) International Filing Date: 1 December 2004 (01.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/527,257 5 December 2003 (05.12.2003) US
- (71) Applicant (for all designated States except US): EXXON-MOBIL RESEARCH AND ENGINEERING COMPANY [US/US]; 1545 Route 22 East, P.O. Box 900, Annandale, NJ 08801-0900 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GREANEY, Mark, A. [US/US]; 1265 River Road, Upper Black Eddy, PA 18972 (US). JACOBS, Peter, W. [US/US]; 755 Jennifer Jean Drive, Baton Rouge, LA 70808 (US). BEGASSE, John, N. [US/US]; 30 Amelia Avenue, Livingston, NJ 07039 (US). DYSARD, Jeffrey, M. [US/US]; 10 Thompson Street, Bernardsville, NJ 70924 (US).
- (74) Agents: HUGUES, Gerard, J. et al.; Exxonmobil Research and Engineering Company, 1545 Route 22 East, P.O. Box 900, Annandale, NJ 08801-0900 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR UPGRADING OF DIESEL FEED BY TREATMENT WITH SULFURIC ACID

(57) Abstract: The instant invention relates to a method for producing low-sulfur, low-nitrogen diesel boiling range products involving contacting a diesel boiling range feedstream with an acidic solution to selectively remove heterocyclic nitrogen-containing compounds before hydrotreating.



WO 2005/056733 A1